

Application No.: 09/577,071
Attorney Docket No. 99-852

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Previously Presented) A data processing apparatus for correlating network events among a number of client services comprising:
 - at least one computer comprising:
 - a memory having program instructions; and
 - a processor configured to use said program instructions to provide:
 - a network management service;
 - an event notification service;
 - a network mediation service adapted to:
 - receive a raw event from an external computer network; and
 - transmit said raw event to said event notification service;
 - a message parsing service adapted to:
 - receive a raw event from said event notification service;
 - parse said raw event; and
 - transmit said parsed event to said event notification service;
 - and
 - an event correlation service coupled to a knowledge database comprising correlation knowledge, said event correlation service adapted to:
 - receive said parsed event from said event notification service;

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utilize data stored in said knowledge database to
derive an event from said parsed event; and
transmit said derived event to one of a plurality of
operator workstations via said event notification
service, regardless of a significance of said derived
event;

wherein said network mediation, message parsing,
event notification and network management services
are coupled together via a plurality of interfaces.

2. (Original) The data processing apparatus of claim 1, wherein said network
mediation service is adapted to interface with at least one external computer network.

3. (Original) The data processing apparatus of claim 2, wherein said network
mediation service is further adapted to:
receive a raw event at said network mediation service from said external computer
network; and
transmit said raw event to said message parsing service.

4. (Original) The data processing apparatus of claim 1, wherein said message
parsing service is adapted to receive a raw event from said network mediation service and
produce a parsed event.

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5. (Original) The data processing apparatus of claim 4, wherein said message parsing service is adapted to route said parsed event to said network management service via said event notification service.

6. (Original) The data processing apparatus of claim 5, wherein said message parsing service is adapted to route said parsed event to said event correlation service via said event notification service.

7. (Original) The data processing apparatus of claim 1, wherein said network management service is adapted to interface with a plurality of operator workstations.

8. (Original) The data processing apparatus of claim 1, wherein said network management service is further adapted to:
receive data requests from said plurality of operator workstations; and
transmit said data requests to said event correlation service via said event notification service.

9. (Original) The data processing apparatus of claim 4, wherein said event notification service is further comprised of:

- a raw event channel;
- a parsed event channel; and
- a derived event channel.

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10. (Original) The data processing apparatus of claim 9, wherein said event notification service is further comprised of at least one filter.
11. (Original) The data processing apparatus of claim 10, wherein said at least one filter is coupled to at least one of said plurality of event channels.
12. (Original) The data processing apparatus of claim 9, wherein said raw event channel is adapted to:
receive a raw event from said network mediation service; and
transmit said raw event to said message parsing service.
13. (Currently Amended) The data processing apparatus of claim 9, wherein said parsed event channel is adapted to:
receive a ~~raw event~~ parsed message from said message parsing service; and
transmit said ~~raw event~~ parsed message to said network management service.
14. (Original) The data processing apparatus of claim 9, wherein said parsed event channel is adapted to:
receive a parsed event from said message parsing service; and
transmit said parsed event to said event correlation service.
15. (Original) The data processing apparatus of claim 9, wherein said derived event channel is adapted to:

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receive a derived event from said event correlation service; and
transmit said derived event to network management service.

16. (Previously Presented) A method for correlating network event messages on a computer network comprising a message parsing service, an event correlation service, and a knowledge database coupled together via a plurality of interfaces, said method comprising the steps of:

receiving a raw event at said message parsing service;
parsing said raw event by said message parsing service;
transmitting said parsed event to said event correlation service;
utilizing data stored in said knowledge database to derive an event from said parsed event; and
transmitting said derived event to one of a plurality of operator workstations, regardless of a significance of said derived event.

17. (Original) The method of claim 16, wherein said step of transmitting said derived event to one of a plurality of operator workstations, further comprising the following steps:

transmitting said derived event from said event correlation service to a network management service; and
transmitting said derived event from said network management service to one of a plurality of operator workstations.

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18. (Previously Presented) A method for correlating network event messages on a computer network comprising a network mediation service, a message parsing service, an event notification service, an event correlation service, and a knowledge database coupled together via a plurality of interfaces, said method comprising the steps of:

receiving a raw event at said network mediation service from an external computer network;

transmitting said raw event to said message parsing service;

parsing said raw event by said message parsing service;

transmitting said parsed event to said event correlation service;

utilizing data stored in said knowledge database to derive an event from said parsed event; and

transmitting said derived event to one of a plurality of operator workstations, regardless of a significance of said derived event.

19. (Original) The method of claim 18, wherein said step of transmitting said raw event to said message parsing service, further comprises the steps of:

transmitting said raw event from said network mediation service to said event notification service; and

transmitting said raw event from said event notification service to said message parsing service.

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20. (Original) The method of claim 19, wherein the step of transmitting said raw event from said event notification service to said message parsing service, further comprises the following steps:

- receiving said raw event at a raw event channel;
- processing said raw event by said raw event channel; and
- transmitting said raw event from said raw event channel to said message parsing service.

21. (Original) The method of claim 20, wherein said step of transmitting said raw event from said raw event channel to said message parsing service, further comprises the following steps of:

- transmitting said raw event from said raw event channel to at least one event filter; and
- transmitting said raw event from said at least one event filter to said message parsing service.

22. (Original) The method of claim 18, wherein said step of transmitting said parsed event to said event correlation service, further comprises the steps of:

- transmitting said parsed event from said message parsing service to said event notification service; and
- transmitting said parsed event from said event notification service to said event correlation service.

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23. (Original) The method of claim 22, wherein the step of transmitting said parsed event from said event notification service to said event correlation service, further comprises the following steps:

receiving said parsed event at a parsed event channel;
processing said parsed event by said parsed event channel; and
transmitting said processed event from said parsed event channel to said event correlation service.

24. (Original) The method of claim 23, wherein said step of transmitting said processed event from said parsed event channel to said event correlation service, further comprises the following steps:

transmitting said processed event from said parsed event channel to at least one event filter; and
transmitting said processed event from said at least one event filter to said event correlation service.

25. (Original) The method of claim 18, wherein said step of transmitting said derived event to one of a plurality of operator workstations, further comprises the steps of:

transmitting said derived event from said event correlation service to said event notification service; and
transmitting said derived event from said event notification service to said network management service; and

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transmitting said derived event from said network management service to one of a plurality of operator workstations.

26. (Original) The method of claim 25, wherein the step of transmitting said derived event from said network management service to one of a plurality of operator workstations, further comprises the following steps:

receiving said derived event at a derived event channel;
processing said derived event by said derived event channel; and
transmitting said processed event from said derived event channel to said network management service.

27. (Original) The method of claim 26, wherein the step of transmitting said processed event from said derived event channel to said network management service, further comprises the following steps:

transmitting said processed event from said derived event channel to at least one event filter; and
transmitting said processed event from said at least one event filter to said network management service.

28. (Currently Amended) A method for correlating network event messages on a computer network comprising a network mediation service, a message parsing service, an event notification service, and a network management service coupled together via a plurality of interfaces, said method comprising the steps of:

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receiving a raw event at said network mediation service from an external computer network;
transmitting said raw event to said message parsing service;
parsing said raw event by said message parsing service; and
transmitting said parsed event to said network management service, regardless of a significance of said parsed event.

29. (Original) The method of claim 28, wherein said step of transmitting said parsed event to said network management service, further comprises the steps of:
transmitting said parsed event from said message parsing service to said event notification service; and
transmitting said parsed event from said event notification service to said network management service.

30. (Original) The method of claim 29, wherein the step of transmitting said parsed event from said event notification service to said network management service, further comprises the following steps:
receiving said parsed event at a parsed event channel;
processing said parsed event by said parsed event channel; and
transmitting said processed event from said parsed event channel to said network management service.

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31. (Original) The method of claim 30, wherein said step of transmitting said processed event from said parsed event channel to said network management service, further comprises the following steps of:

transmitting said processed event from said parsed event channel to at least one event filter; and

transmitting said processed event from said at least one event filter to said network management service.

32. (Previously Presented) A data processing apparatus for correlating network events among a number of client services comprising:

means for receiving a raw event at a message parsing service;

means for parsing said raw event by said message parsing service;

means for transmitting said parsed event to an event correlation service;

means for utilizing data stored in a knowledge database to derive an event from said parsed event; and

means for transmitting said derived event to one of a plurality of operator workstations, regardless of a significance of said derived event.

33. (Previously Presented) A computer system for correlating network events among a number of client services comprising:

a memory having program instructions; and

a processor configured to use the program instructions to receive a raw event at a network mediation service from an external computer network; to transmit said raw event to a message

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parsing service; to parse said raw event by said message parsing service; to transmit said parsed event to a event correlation service; to utilize data stored in a knowledge database to derive an event from said parsed event; and to transmit said derived event to one of a plurality of operator workstations, regardless of a significance of said derived event.